

MICROWAVE ASSOCIATES, INC.

BURLINGTON, MASSASHUBETTS Western Union FAX, TWX. Burnington, Mess, Brigg Browning 2, 2000 DIFFUSED SILICON MESA COMPUTER DIODES



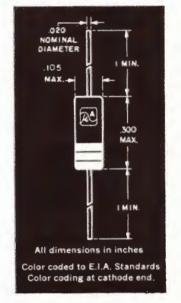
SUBMINIATURE, FAST-SWITCHING, LOW-CAPACITANCE SILICON DIODE

These diodes are designed for use in circuits requiring exceptionally fast recovery time and response. They are hermetically sealed in subminiature glass cases and have gold-plated, copper-clad steel leads that may be easily welded or soldered.

These extremely rugged diodes withstand the most stringent military environments and can be supplied to meet the most severe reliability specifications

The reverse current characteristics make them an ideal choice in circuits demanding low leakage currents, especially where the accumulated leakage current from many diodes can cause circuit malfunction.

IN907



MAXIMUM RATINGS @ 25°C	SYMBOL	MIN	MAX	UNITS
Forward Current Steady-State DC	1.		100	mAdc
Peak Surge Current (1 sec.)	i surge		250	mAdc
Reverse Voltage Steady-State DC	V_{R}		30	Vdc
Power Dissipation	P'`		250	mW
Operating & Storage Temperature Range	Т	- 65	150	°C
Derating above 25°C (free air)		1.5		mW/°C

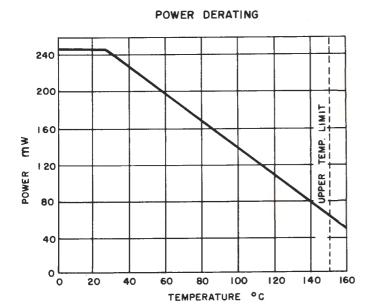
ELECTRICAL SPECIFICATIONS @ 25°C

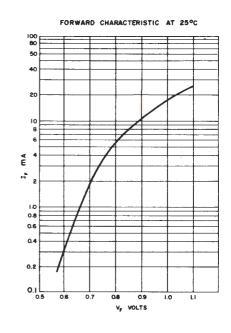
TEST	TEST COND.	SYMBOL	MIN	MAX	UNITS
Forward Voltage Drop Reverse Current Capacitance* Recovery Time	$I_F = 10.0 \text{ mAdc}$ $V_R = -30 \text{ Vdc}$ $T = 100 ^{\circ}\text{C}$ $V_R = -6 \text{ Vdc}$ $I_F = 10 \text{ mAdc}$ switched to $V_R = 5.0 \text{ Vdc}$ through 100 ohi	C-6		1.0 0.1 10.0 2.5 .004	Vdc µAdc µAdc pf µsec.
	to 1.0 ma.				

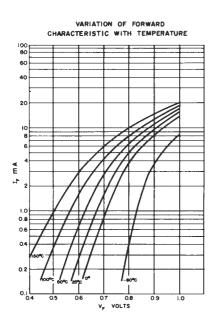
* Average case capacitance is 0.20 pf. Junction capacitance at zero bias is approximately twice that at -6 volts.

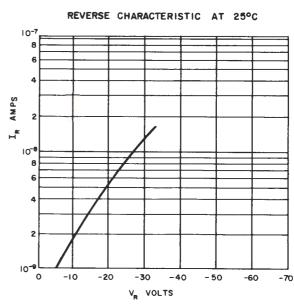
These specifications are in accordance with MIL-S-19500B.

TYPICAL ELECTRICAL CHARACTERISTICS



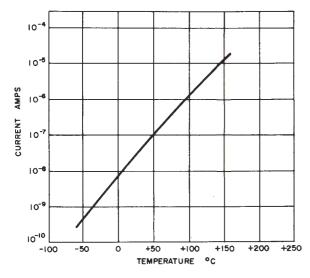


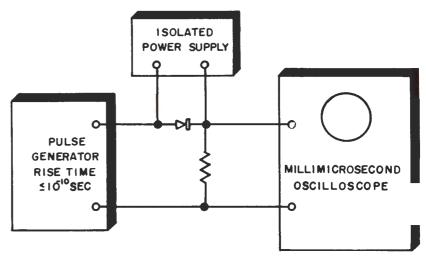




VARIATION OF REVERSE CURRENT WITH TEMPERATURE AT -30V







CS-9.907 DATED 5-61 PRINTED USA